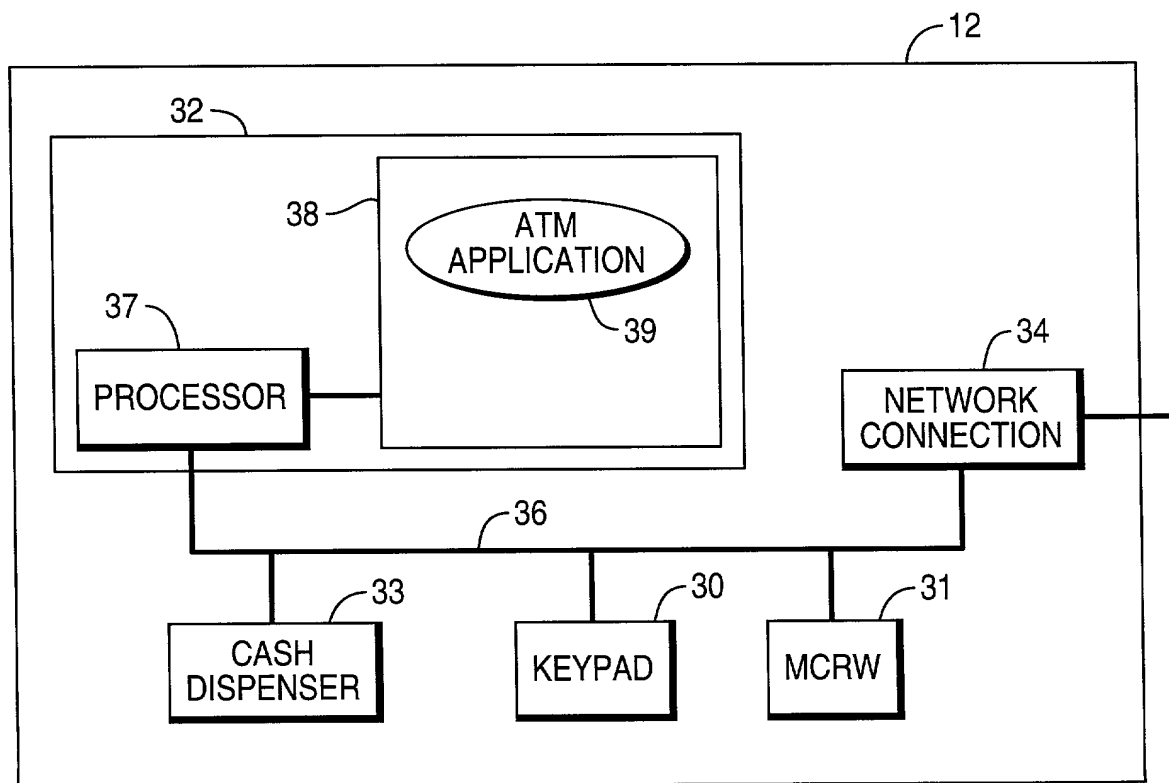


FIG. 1

FIG. 2



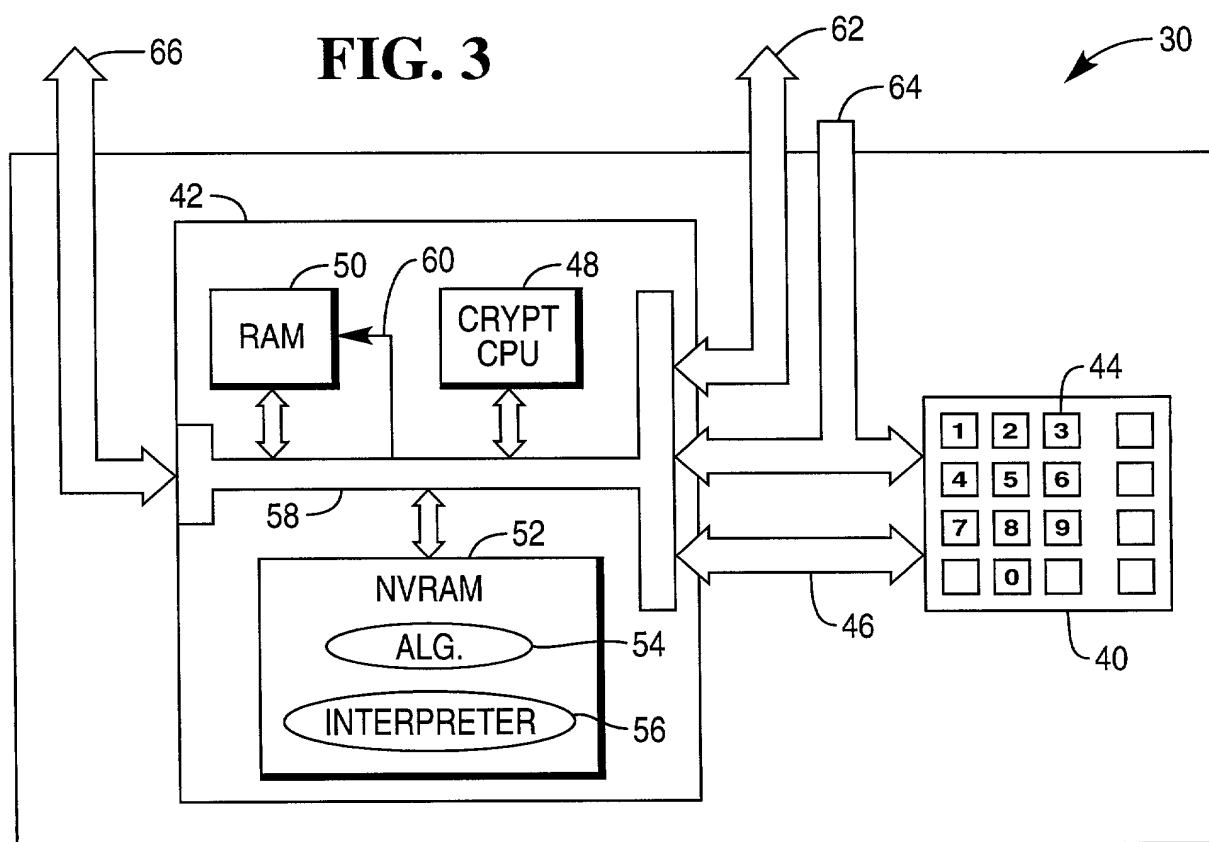


FIG. 5

150

152 <message>

154 <encrypt>

158 <algorithm>2k3des_ecb</algorithm> 156

160 <plain text> "ABCDEFGH" </plain text>

162 <use key> "Key 1" </use key>

164 <cipher text> result </cipher text> 166

</encrypt>

</message>

168 <output message> result </output message>

FIG. 4

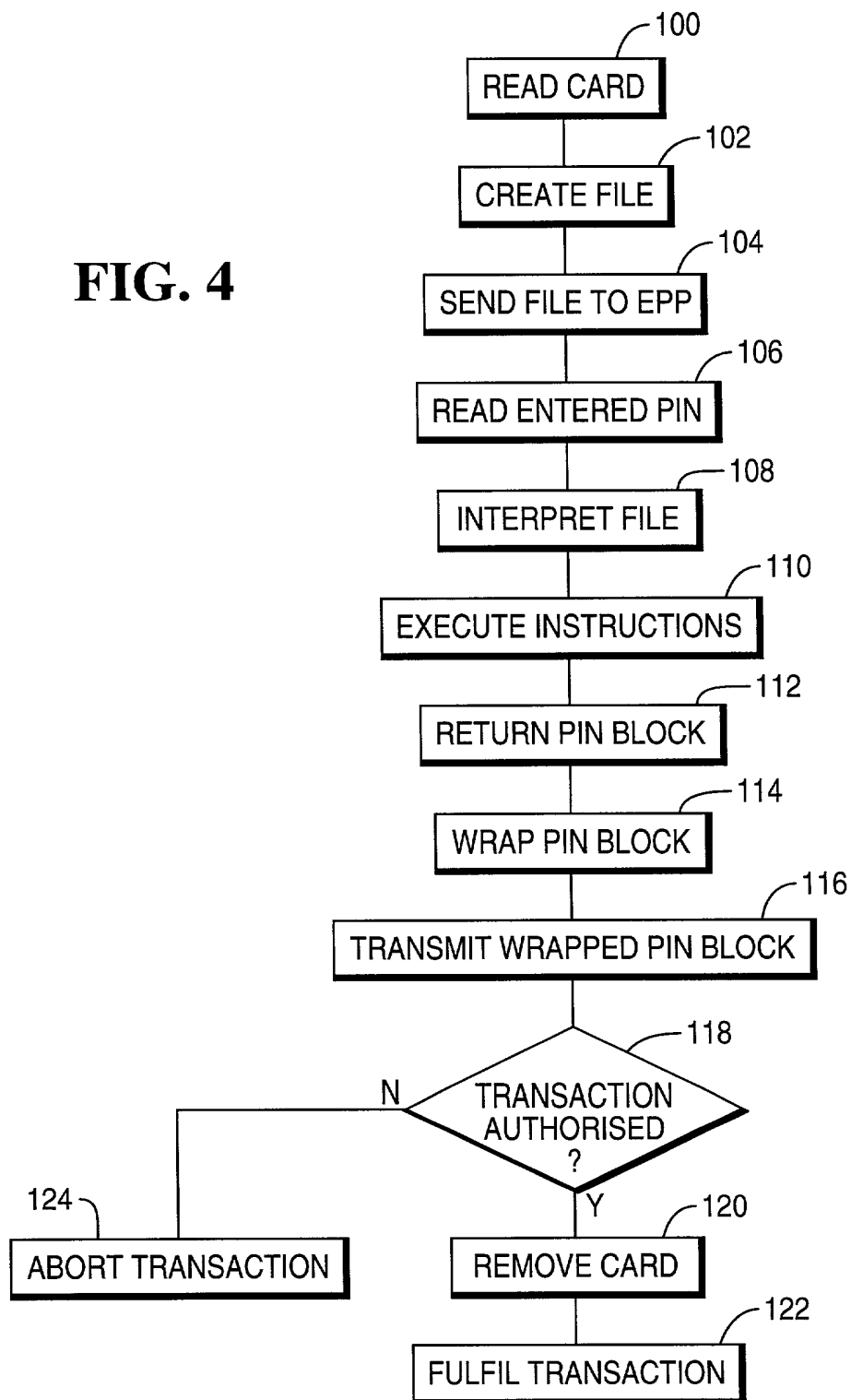


FIG. 6

<message>

180

<encrypt>

<algorithm>2k3des_ecb</algorithm>

<plain text> "ABCDEFGH" </plain text>

<use key> "Key 1" </use key>

<cipher text> result 1</cipher text>

182

</encrypt>

<encrypt>

<algorithm>2k3des_ecb</algorithm>

<plain text> "IJKLMNOP" </plain text>

<use key> "Key 2" </use key>

<cipher text> result2 </cipher text>

184

</encrypt>

<xor> result1,result2, result </xor>

186

</message>

<output message> result </output message>

188

<message>
 <input field1> "12345678" </input field1>

<decrypt>

<algorithm>des_ecb</algorithm>
 <plain text> input field 1 </plain text>
 <use key> Key 1 </use key>
 <cipher text> result </cipher text>
 </decrypt>

<make key>
 <xor> result, input field 1, Key 2 </xor>
 </make key>

</message>

FIG. 7

200

<message>
 <input field1> "12345678" </input field1>
 <encrypt>
 <algorithm>2k3des_ecb</algorithm>
 <plain text> input field 1 </plain text>
 <use key> Key 1 </use key>
 <cipher text> result </cipher text>
 </encrypt>
 <make key>
 <xor> result, input field 1, Key 2 </xor>
 </make key>
 </message>

FIG. 8